

CLAIMS:

1. A circuit arrangement (15) for generating at least one voltage value (V_{mult}), which circuit arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to switch the voltage multiplier to a direct mode in order to control the voltage multiplier during a start time (t_s).

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2. A circuit arrangement as claimed in claim 1, characterized in that it is arranged to supply the voltage multiplier with an activation signal (32) formed from a subvoltage (V_{dac}) generated by the subvoltage generating unit and from a reference signal (V_{ref}), and that it is arranged to supply the voltage multiplier with an initial start signal (36) formed from the activation signal (32) during the start time (t_s).

10 3. A circuit arrangement as claimed in claim 1, characterized in that there is provided a start control unit for controlling the voltage multiplier, which start control unit includes at least one comparator (31) and a logic unit (35), the comparator being arranged to compare a subvoltage (V_{dac}) generated by the subvoltage generating unit and a reference voltage (V_{ref}), and to generate the activation signal (32), the logic unit (35) generating an initial start signal (36) so as to switch the voltage multiplier to a direct mode.

15 4. A circuit arrangement as claimed in claim 1, characterized in that the start time (t_s) during which the voltage multiplier (20) operates in a direct mode is adaptive adjustable.

20 5. A circuit arrangement as claimed in claim 1, characterized in that a series connection of switching devices (S_{Wn}) of the stages (S_n) in the voltage multiplier (20) is closed in the direct mode, and that the capacitances (C_{Sn}) associated with the stages can be disconnected.

25 6. A circuit arrangement for driving a display device, which arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to

control the voltage multiplier (20) by switching the voltage multiplier to a direct mode by means of an initial start signal (36) during a start time (ts).

7. Voltage multiplier (20) for generating at least one voltage value (V_{mult}),
5 containing a series connection of the stages (S_n) with switching devices (S_{Wn}), switching devices (S_{Cn}) and capacitances (C_{Sn}), characterized in that during a starttime (ts) the switching devices (S_{Wn}) are closed and by that a supply voltage (v_{dd}) at the input of the voltage multiplier is switched to the output of the voltage multiplier.

- 10 8. A display unit (2) for the display of image data, which display unit includes an arrangement (15) for driving the display unit with a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged to switch the voltage multiplier to a direct mode by means of at least one signal (36) during a start time ts.

- 15 9. An electronic apparatus which is provided with a display unit (2) for the display of image data and also with an arrangement (15) for driving the display unit, which arrangement includes a subvoltage generating unit (40) and a voltage multiplier (20), it being arranged that at least one signal (36) controls the voltage multiplier and that the voltage multiplier can be switched to a direct mode during a start time ts.

- 20 10. A method of starting a circuit arrangement (15) which includes a subvoltage generating unit (40) and a voltage multiplier (20), in which method a subvoltage value (V_{teil}) and a reference voltage (V_{-ref}) are compared so as to generate an activation signal (32), the voltage multiplier (20) being switched to a direct mode during a start time (ts) which is
25 adaptively adjusted by monitoring an activation signal (32).